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NOTICE OF ALLOWANCE AND FEE(S) DUE

65913

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08/12/2009

NXP, B.V. NXP INTELLECTUAL PROPERTY & LICENSING M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

EXAMINER SHAH, TUSHAR S ART UNIT PAPER NUMBER

2184

DATE MAILED: 08/12/2009

A	PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/552,778	10/12/2005	Om Prakash Gangwal	NL03 0381	2059

TITLE OF INVENTION: DATA PROCESSING IN WHICH CONCURRENTLY EXECUTED PROCESSES COMMUNICATE VIA A FIFO BUFFER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica CURRENT CORRESPOND	Not Fee pap	Note: A certificate of mailing can only be used for any other accompanyin papers. Each additional paper, such as an assignment or formal drawing, mu have its own certificate of mailing or transmission.					
65913 NXP, B.V. NXP INTELLE M/S41-SJ		Cei	rtificate	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.		
1109 MCKAY I SAN JOSE, CA			(Dep				
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/552,778	10/12/2005		Om Prakash Gangwal			NL03 0381	2059
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	11/12/2009
EXAM		ART UNIT	CLASS-SUBCLASS	7		******	
	USHAR S	2184	710-052000	J			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	"Indication form led. Use of a Customer A TO BE PRINTED ON 'ified below, no assignee	(1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent attc listed, no name will be THE PATENT (print or ty data will appear on the pT a substitute for filing an (B) RESIDENCE: (CITY	vely, le firm (having as a agent) and the namorneys or agents. If printed. pe) patent. If an assign assignment.	n members of union no nan	p to p to a e is 3 dentified below, the de	ocument has been filed for
Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🗖 C	orporat	ion or other private gro	oup entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies 5. Change in Entity Status (from status indicated above)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
_ 。 .	ns SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lon	nger claiming SMA	LL EN	TITY status. See 37 CI	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				_			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi- e Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the pub minutes ommen Trader S. SEN	lic which is to file (and s to complete, includin ts on the amount of tir mark Office, U.S. Depa D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/552,778	10/12/2005	Om Prakash Gangwal	NL03 0381	2059		
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NXP, B.V.		SHAH, TUSHAR S				
	UAL PROPERTY & I	ART UNIT	PAPER NUMBER			
M/S41-SJ 1109 MCKAY DR SAN JOSE, CA 95			2184 DATE MAILED: 08/12/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 669 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 669 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/552,778	GANGWAL OM PRAK	GANGWAL, OM PRAKASH		
Notice of Allowability	Examiner	Art Unit	1011		
	TUSHAR S. SHAH	2184			
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSE) or other appropriate co RIGHTS. This application 3 and MPEP 1308.	ED in this application. If not included mmunication will be mailed in due count is subject to withdrawal from issue at	rse. THIS		
1. This communication is responsive to the after final remark	<u>ss file on June 30°, 2009</u>	•			
2. ☑ The allowed claim(s) is/are <u>1 and 3-13</u> .					
3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application to the communication to MENT of this application. nitted. Note the attached res reason(s) why the oar	cation No eived in this national stage application of file a reply complying with the require	ements		
5. CORRECTED DRAWINGS (as "replacement sheets") mu					
(a) ☐ including changes required by the Notice of Draftsper		eview (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 6. DEPOSIT OF and/or INFORMATION about the deposition of the paper No./Mail Date	's Amendment / Comme 1.84(c)) should be written the header according to 3	on the drawings in the front (not the bac 7 CFR 1.121(d).	,		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of the second sec	of Informal Patent Application w Summary (PTO-413), No./Mail Date er's Amendment/Comment er's Statement of Reasons for Allowar	nce		
/T. S. S./	9. ☐ Other _ /Henry W.H				
Examiner, Art Unit 2184		Patent Examiner, Art Unit 2184			

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Art Unit: 2184

REASONS FOR ALLOWANCE

This action is in response to the After Final Remarks filed on June 30th, 2009.

1. Claims 1 and 3-13 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Referring to independent claims 1, 8, 12 and 13, the prior art of record taken alone and/or in combination with each other fails to teach and/or fairly suggest the limitation of "return a pointer to the consuming process indicating a location in the buffer memory from which to read the entire grain when the addresses do not wrap around inside the grain, or a pointer indicating a location of the auxiliary memory region from which to read the entire grain, when the addresses wrap around," in combination with other recited limitations.

Nadehara discloses a circular buffer where in the case of an overflow, the first few entries of the buffer are copied in the space immediately following the end of the buffer for wrap around conditions However, Nadehara fails to teach "return a pointer to the consuming process indicating a location in the buffer memory from which to read the entire grain when the addresses do not wrap around inside the grain, or a pointer indicating a location of the auxiliary memory region from which to read the entire grain, when the addresses wrap around."

Sample discloses a method for emulating a circuit design for a reconfigurable hardware array such as an FPGA, as related to claim 11. However, Sample fails to

teach "return a pointer to the consuming process indicating a location in the buffer memory from which to read the entire grain when the addresses do not wrap around inside the grain, or a pointer indicating a location of the auxiliary memory region from which to read the entire grain, when the addresses wrap around."

Further references cited, such as *Swan*, teach processing video data in grains through a ring buffer. However, they fail to teach, alone or in combination, "return a pointer to the consuming process indicating a location in the buffer memory from which to read the entire grain when the addresses do not wrap around inside the grain, or a pointer indicating a location of the auxiliary memory region from which to read the entire grain, when the addresses wrap around."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUSHAR S. SHAH whose telephone number is (571)270-1970. The examiner can normally be reached on Mon-Fri 7:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Henry Tsai can be reached on 571-272-4176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2184

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. S. S./ Examiner, Art Unit 2184

/Henry W.H. Tsai/ Supervisory Patent Examiner, Art Unit 2184